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TECH CENTER 1600/2900

RAW SEQUENCE LISTING

DATE: 09/20/2001

PATENT APPLICATION: US/09/373,658C

TIME: 10:21:58

Input Set : A:\seqlist_1488 1070006.txt

Output Set: N:\CRF3\09202001\I373658C.raw

ENTERED

7 <110> APPLICANT: Iruela-Arispe, Luisa
8 Hastings, Gregg A.
9 Ruben, Steven M.
10 Jonak, Zdenka L.
11 Trulli, Stephen H.
12 Fronwald, James A.
13 Terrett, Jonathan A.
16 <120> TITLE OF INVENTION: Meth1 and Meth2 Polynucleotides and Polypeptides
19 <130> FILE REFERENCE: 1488.1070006
22 <140> CURRENT APPLICATION NUMBER: 09/373,658C
C--> 25 <141> CURRENT FILING DATE: 2001-09-10
28 <160> NUMBER OF SEQ ID NOS: 126
31 <170> SOFTWARE: PatentIn Ver. 2.0
35 <210> SEQ ID NO: 1
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38 <213> ORGANISM: Homo sapiens
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44 <220> FEATURE:
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46 <222> LOCATION: (3195)
47 <223> OTHER INFORMATION: n is any nucleic acid
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51 <222> LOCATION: (3248)
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61 <222> LOCATION: (3261)
64 <223> OTHER INFORMATION: n is any nucleic acid
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69 1 5 10 15
71 ccc acg ctg ctg ctg ctc gcc gcg gcg cta ctg gcc gtg tcg gac gca 96
72 Pro Thr Leu Leu Leu Leu Ala Ala Ala Leu Leu Ala Val Ser Asp Ala
73 20 25 30
75 ctc ggg cgc ccc tcc gag gag gac gag gag cta gtg gtg ccg gag ctg 144
76 Leu Gly Arg Pro Ser Glu Glu Asp Glu Glu Leu Val Val Pro Glu Leu
77 35 40 45
79 gag cgc gcc ccg gga cac ggg acc acg cgc ctc cgc ctg cac gcc ttt 192

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80 Glu Arg Ala Pro Gly His Gly Thr Thr Arg Leu Arg Leu His Ala Phe
81      50                      55                      60
83 gac cag cag ctg gat ctg gag ctg cgg ccc gac agc agc ttt ttg gcg      240
84 Asp Gln Gln Leu Asp Leu Glu Leu Arg Pro Asp Ser Ser Phe Leu Ala
85 65                      70                      75                      80
87 ccc ggc ttc acg ctc cag aac gtg ggg cgc aaa tcc ggg tcc gag acg      288
88 Pro Gly Phe Thr Leu Gln Asn Val Gly Arg Lys Ser Gly Ser Glu Thr
89                      85                      90                      95
91 ccg ctt ccg gaa acc gac ctg gcg cac tgc ttc tac tcc ggc acc gtg      336
92 Pro Leu Pro Glu Thr Asp Leu Ala His Cys Phe Tyr Ser Gly Thr Val
93                      100                      105                      110
95 aat ggc gat ccc agc tcg gct gcc gcc ctc agc ctc tgc gag ggc gtg      384
96 Asn Gly Asp Pro Ser Ser Ala Ala Ala Leu Ser Leu Cys Glu Gly Val
97                      115                      120                      125
99 cgc ggc gcc ttc tac ctg ctg ggg gag gcg tat ttc atc cag ccg ctg      432
100 Arg Gly Ala Phe Tyr Leu Leu Gly Glu Ala Tyr Phe Ile Gln Pro Leu
101                      130                      135                      140
103 ccc gcc gcc agc gag cgc ctc gcc acc gcc gcc cca ggg gag aag ccg      480
104 Pro Ala Ala Ser Glu Arg Leu Ala Thr Ala Ala Pro Gly Glu Lys Pro
105 145                      150                      155                      160
107 ccg gca cca cta cag ttc cac ctc ctg cgg cgg aat cgg cag ggc gac      528
108 Pro Ala Pro Leu Gln Phe His Leu Leu Arg Arg Asn Arg Gln Gly Asp
109                      165                      170                      175
111 gta ggc ggc acg tgc ggg gtc gtg gac gac gag ccc cgg ccg act ggg      576
112 Val Gly Gly Thr Cys Gly Val Val Asp Asp Glu Pro Arg Pro Thr Gly
113                      180                      185                      190
115 aaa gcg gag acc gaa gac gag gac gaa ggg act gag ggc gag gac gaa      624
116 Lys Ala Glu Thr Glu Asp Glu Asp Glu Gly Thr Glu Gly Glu Asp Glu
117                      195                      200                      205
119 ggg cct cag tgg tcg ccg cag gac ccg gca ctg caa ggc gta gga cag      672
120 Gly Pro Gln Trp Ser Pro Gln Asp Pro Ala Leu Gln Gly Val Gly Gln
121                      210                      215                      220
123 ccc aca gga act gga agc ata aga aag aag cga ttt gtg tcc agt cac      720
124 Pro Thr Gly Thr Gly Ser Ile Arg Lys Lys Arg Phe Val Ser Ser His
125 225                      230                      235                      240
127 cgc tat gtg gaa acc atg ctt gtg gca gac cag tcg atg gca gaa ttc      768
128 Arg Tyr Val Glu Thr Met Leu Val Ala Asp Gln Ser Met Ala Glu Phe
129                      245                      250                      255
131 cac ggc agt ggt cta aag cat tac ctt ctc acg ttg ttt tcg gtg gca      816
132 His Gly Ser Gly Leu Lys His Tyr Leu Leu Thr Leu Phe Ser Val Ala
133                      260                      265                      270
135 gcc aga ttg tac aaa cac ccc agc att cgt aat tca gtt agc ctg gtg      864
136 Ala Arg Leu Tyr Lys His Pro Ser Ile Arg Asn Ser Val Ser Leu Val
137                      275                      280                      285
139 gtg gtg aag atc ttg gtc atc cac gat gaa cag aag ggg ccg gaa gtg      912
140 Val Val Lys Ile Leu Val Ile His Asp Glu Gln Lys Gly Pro Glu Val
141                      290                      295                      300
143 acc tcc aat gct gcc ctc act ctg cgg aac ttt tgc aac tgg cag aag      960
144 Thr Ser Asn Ala Ala Leu Thr Leu Arg Asn Phe Cys Asn Trp Gln Lys

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145	305		310		315		320	
147	cag	cac	aac	cca	ccc	agt	gac	cgg
148	Gln	His	Asn	Pro	Pro	Ser	Asp	Arg
149					325			330
151	att	ctt	ttc	acc	aga	cag	gac	ttg
152	Ile	Leu	Phe	Thr	Arg	Gln	Asp	Leu
153				340				345
155	ctt	ggg	atg	gct	gat	gtt	gga	act
156	Leu	Gly	Met	Ala	Asp	Val	Gly	Thr
157			355					360
159	tcc	gtc	ata	gaa	gat	gat	ggg	tta
160	Ser	Val	Ile	Glu	Asp	Asp	Gly	Leu
161		370				375		380
163	gaa	tta	ggc	cac	gtg	ttt	aac	atg
164	Glu	Leu	Gly	His	Val	Phe	Asn	Met
165	385				390			395
167	gcc	agc	ctt	aat	ggg	gtg	aac	cag
168	Ala	Ser	Leu	Asn	Gly	Val	Asn	Gln
169			405					410
171	ctt	tcc	aac	ctg	gac	cac	agc	cag
172	Leu	Ser	Asn	Leu	Asp	His	Ser	Gln
173			420					425
175	atg	att	aca	tca	ttt	ctg	gat	aat
176	Met	Ile	Thr	Ser	Phe	Leu	Asp	Asn
177		435					440	
179	aag	cct	cag	aat	ccc	ata	cag	ctc
180	Lys	Pro	Gln	Asn	Pro	Ile	Gln	Leu
181		450					455	
183	tac	gat	gcc	aac	cgg	cag	tgc	cag
184	Tyr	Asp	Ala	Asn	Arg	Gln	Cys	Gln
185	465				470			475
187	cac	tgc	cct	gat	gca	gcc	agc	aca
188	His	Cys	Pro	Asp	Ala	Ala	Ser	Thr
190			485					490
192	acc	tct	ggg	gtg	ctg	gtg	tgt	caa
193	Thr	Ser	Gly	Gly	Val	Leu	Val	Cys
194			500					505
196	gat	ggc	acc	agc	tgt	gga	gaa	ggg
197	Asp	Gly	Thr	Ser	Cys	Gly	Glu	Gly
198		515						520
200	gtg	aac	aaa	acc	gac	aga	aag	cat
201	Val	Asn	Lys	Thr	Asp	Arg	Lys	His
202		530						535
204	tgg	gga	atg	tgg	ggg	cct	tgg	gga
205	Trp	Gly	Met	Trp	Gly	Pro	Trp	Gly
206	545				550			555
208	gga	gtc	cag	tac	acg	atg	agg	gaa
209	Gly	Val	Gln	Tyr	Thr	Met	Arg	Glu
210			565					570

RAW SEQUENCE LISTING

DATE: 09/20/2001

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Input Set : A:\seqlist_1488 1070006.txt

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213 Gly Gly Lys Tyr Cys Glu Gly Lys Arg Val Arg Tyr Arg Ser Cys Asn
214      580      585      590
216 ctt gag gac tgt cca gac aat aat gga aaa acc ttt aga gag gaa caa 1824
217 Leu Glu Asp Cys Pro Asp Asn Asn Gly Lys Thr Phe Arg Glu Glu Gln
218      595      600      605
220 tgt gaa gca cac aac gag ttt tca aaa gct tcc ttt ggg agt ggg cct 1872
221 Cys Glu Ala His Asn Glu Phe Ser Lys Ala Ser Phe Gly Ser Gly Pro
222      610      615      620
224 gcg gtg gaa tgg att ccc aag tac gct ggc gtc tca cca aag gac agg 1920
225 Ala Val Glu Trp Ile Pro Lys Tyr Ala Gly Val Ser Pro Lys Asp Arg
226 625      630      635      640
228 tgc aag ctc atc tgc caa gcc aaa ggc att ggc tac ttc ttc gtt ttg 1968
229 Cys Lys Leu Ile Cys Gln Ala Lys Gly Ile Gly Tyr Phe Phe Val Leu
230      645      650      655
232 cag ccc aag gtt gta gat ggt act cca tgt agc cca gat tcc acc tct 2016
233 Gln Pro Lys Val Val Asp Gly Thr Pro Cys Ser Pro Asp Ser Thr Ser
234      660      665      670
236 gtc tgt gtg caa gga cag tgt gta aaa gct ggt tgt gat cgc atc ata 2064
237 Val Cys Val Gln Gly Gln Cys Val Lys Ala Gly Cys Asp Arg Ile Ile
238      675      680      685
240 gac tcc aaa aag aag ttt gat aaa tgt ggt gtt tgc ggg gga aat gga 2112
241 Asp Ser Lys Lys Lys Phe Asp Lys Cys Gly Val Cys Gly Gly Asn Gly
242      690      695      700
244 tct act tgt aaa aaa ata tca gga tca gtt act agt gca aaa cct gga 2160
245 Ser Thr Cys Lys Lys Ile Ser Gly Ser Val Thr Ser Ala Lys Pro Gly
246 705      710      715      720
248 tat cat gat atc atc aca att cca act gga gcc acc aac atc gaa gtg 2208
249 Tyr His Asp Ile Ile Thr Ile Pro Thr Gly Ala Thr Asn Ile Glu Val
250      725      730      735
253 aaa cag cgg aac cag agg gga tcc agg aac aat ggc agc ttt ctt gcc 2256
254 Lys Gln Arg Asn Gln Arg Gly Ser Arg Asn Asn Gly Ser Phe Leu Ala
255      740      745      750
257 atc aaa gct gct gat ggc aca tat att ctt aat ggt gac tac act ttg 2304
258 Ile Lys Ala Ala Asp Gly Thr Tyr Ile Leu Asn Gly Asp Tyr Thr Leu
259      755      760      765
261 tcc acc tta gag caa gac att atg tac aaa ggt gtt gtc ttg agg tac 2352
262 Ser Thr Leu Glu Gln Asp Ile Met Tyr Lys Gly Val Val Leu Arg Tyr
263      770      775      780
265 agc ggc tcc tct gcg gca ttg gaa aga att cgc agc ttt agc cct ctc 2400
266 Ser Gly Ser Ser Ala Ala Leu Glu Arg Ile Arg Ser Phe Ser Pro Leu
267 785      790      795      800
269 aaa gag ccc ttg acc atc cag gtt ctt act gtg ggc aat gcc ctt cga 2448
270 Lys Glu Pro Leu Thr Ile Gln Val Leu Thr Val Gly Asn Ala Leu Arg
271      805      810      815
273 cct aaa att aaa tac acc tac ttc gta aag aag aag aag gaa tct ttc 2496
274 Pro Lys Ile Lys Tyr Thr Tyr Phe Val Lys Lys Lys Lys Glu Ser Phe
275      820      825      830
277 aat gct atc ccc act ttt tca gca tgg gtc att gaa gag tgg ggc gaa 2544

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278 Asn Ala Ile Pro Thr Phe Ser Ala Trp Val Ile Glu Glu Trp Gly Glu
279      835      840      845
281 tgt tct aag tca tgt gaa ttg ggt tgg cag aga aga ctg gta gaa tgc 2592
282 Cys Ser Lys Ser Cys Glu Leu Gly Trp Gln Arg Arg Leu Val Glu Cys
283      850      855      860
285 cga gac att aat gga cag cct gct tcc gag tgt gca aag gaa gtg aag 2640
286 Arg Asp Ile Asn Gly Gln Pro Ala Ser Glu Cys Ala Lys Glu Val Lys
287 865      870      875      880
289 cca gcc agc acc aga cct tgt gca gac cat ccc tgc ccc cag tgg cag 2688
290 Pro Ala Ser Thr Arg Pro Cys Ala Asp His Pro Cys Pro Gln Trp Gln
291      885      890      895
293 ctg ggg gag tgg tca tca tgt tct aag acc tgt ggg aag ggt tac aaa 2736
294 Leu Gly Glu Trp Ser Ser Cys Ser Lys Thr Cys Gly Lys Gly Tyr Lys
295      900      905      910
297 aaa aga agc ttg aag tgt ctg tcc cat gat gga ggg gtg tta tct cat 2784
298 Lys Arg Ser Leu Lys Cys Leu Ser His Asp Gly Gly Val Leu Ser His
299      915      920      925
301 gag agc tgt gat cct tta aag aaa cct aaa cat ttc ata gac ttt tgc 2832
302 Glu Ser Cys Asp Pro Leu Lys Lys Pro Lys His Phe Ile Asp Phe Cys
303      930      935      940
305 aca atg gca gaa tgc agt taa gtggtttaag tgggtgtagc tttgaggcaa 2883
306 Thr Met Ala Glu Cys Ser
307 945      950
309 ggcaaagtga ggaagggctg gtgcagggaa agcaagaagg ctggagggat ccagcgtatc 2943
311 ttgccagtaa ccagtgaagt gtatcagtaa ggtgggatta tgggggtaga tagaaaagga 3003
313 gttgaatcat cagagtaaac tgccagttgc aaatttgata ggatagttag tgaggattat 3063
316 taacctctga gcagtgatat agcataataa anccccgggc attattatta ttatttcttt 3123
318 tgttacatct attacaagtt tagaaaaaac aaagcaattg tcaaaaaaaaa aaaaaaaaaa 3183
320 aaaaaaaaaa aaagggcggc cgctctagag gatccctcga ggggcccagg cttacgcgtg 3243
322 catgntgtca tnagtctn 3261
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336 Pro Thr Leu Leu Leu Leu Ala Ala Ala Leu Leu Ala Val Ser Asp Ala
337      20      25      30
339 Leu Gly Arg Pro Ser Glu Glu Asp Glu Glu Leu Val Val Pro Glu Leu
340      35      40      45
342 Glu Arg Ala Pro Gly His Gly Thr Thr Arg Leu Arg Leu His Ala Phe
343      50      55      60
345 Asp Gln Gln Leu Asp Leu Glu Leu Arg Pro Asp Ser Ser Phe Leu Ala
346      65      70      75      80
348 Pro Gly Phe Thr Leu Gln Asn Val Gly Arg Lys Ser Gly Ser Glu Thr
349      85      90      95
351 Pro Leu Pro Glu Thr Asp Leu Ala His Cys Phe Tyr Ser Gly Thr Val
352      100      105      110

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Use of n and/or Xaa has been detected in the Sequence Listing.

→ Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

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L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:777 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:779 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:1534 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:1546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:1548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:1550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:1639 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:1645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:1647 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
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L:9826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:9865 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
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L:9920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:9922 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
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L:10051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
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L:10182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51